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**AMENDMENTS TO THE CLAIMS:**

The following listing of claims supersedes all prior versions and listings of claims in this application:

1. (Currently Amended) An image data correcting device comprising at least one programmed computer connected to execute program code which includes:

a movement information acquiring section for acquiring movement information showing a spatial distribution of the magnitude of a movement in the real space of an image pickup part of a detected body;

a correcting section for making a correction different from that of a second area in a first area of image data of the image pickup part of said detected body collected by a scan of magnetic resonance imaging on the basis of said movement information; and

a synthesizing section for synthesizing respective image data of said first area and said second area corrected by said correcting section,

wherein said correcting section is configured to make corrections different from each other and including a non-correction with respect to

two areas or more obtained by mutually synthesizing one portion of at least three areas in said image data of said image pickup part , and

~~an image data collecting section for executing said scan by using a pulse sequence constructed by a pulse series based on one of a spin warp method, a spiral method and a radial method in a pulse series of one of a multi-shot type and a single type is arranged.~~

2. (Original) The image data correcting device according to claim 1, wherein said correcting section is constructed so as to perform linear correction processing according to a spatially ununiform deteriorating degree of said image data generated by the movement of said image pickup part.

3. (Original) The image data correcting device according to claim 1, wherein said synthesizing section is constructed so as to synthesize the image data after a first correction in said first area, and the image data after a second correction different from said first correction in said second area.

4. (Original) The image data correcting device according to claim 1, wherein said synthesizing section is constructed so as to synthesize the image data after the correction in said first area, and uncorrected image data in said second area.

5. (Original) The image data correcting device according to claim 1, wherein said movement information acquiring section has a navigator echo collecting section for collecting an echo signal for a navigator when data for imaging are collected from said image pickup part, and also has a movement information generating section for processing said echo signal and generating said movement information.

6. (Previously Presented) The image data correcting device according to claim 1, wherein said movement information acquiring section has:

a sensor for detecting the movement of said image pickup part optically or by air pressure; and

a movement information generating section for processing a signal detected by said sensor and generating said movement information.

7. (Previously Presented) The image data correcting device according to claim 1, wherein said correcting section is constructed so as to respectively make different corrections with respect to three or more areas of said image data.

8. (Currently Amended) The image data correcting device according to claim 1, wherein said movement information acquiring section has:

a navigator echo collecting section for collecting an echo signal for a navigator when data for imaging are collected from said image pickup part;

a processing information acquiring section for obtaining processing information including average values of the amplitude and phase of the movement of each part from said echo signal;

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a profile acquiring section for acquiring an entire profile of said spatial distribution by using a predetermined model ~~measured or supposed in advance~~; and

a movement information generating section for generating said movement information on the basis of said profile and said processing information.

9. (Original) The image data correcting device according to claim 1, wherein said movement information acquiring section has:

a navigator echo collecting section for collecting an echo signal for a navigator in one of a data read-out direction and a phase encode direction caused by the imaging when data for imaging are collected from said image pickup part;

a projection data generating section for processing said echo signal and generating projection data; and

a movement information generating section for using said projection data as said movement information.

10. (Original) The image data correcting device according to claim 1, wherein said movement information acquiring section has:

a navigator echo collecting section for collecting an echo signal for a navigator when data for imaging are collected from said image pickup part; and

a movement information generating section for calculating a shift of one of a phase distribution of a k-space of said echo signal and a position of at least one direction of an r-space as said movement information.

11. (Previously Presented) The image data correcting device according to claim 1, wherein an image data collecting section for collecting said image data by using a single signal receiving radio frequency (RF) coil is arranged.

12. (Original) The image data correcting device according to claim 1, wherein said correcting section is constructed so as to substantially generate plural image data by multiplying said image data in said image

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pickup part by plural window functions having weight distributions different from each other.

13. (Original) The image data correcting device according to claim 1, wherein said correcting section is constructed so as to perform linear correction processing with respect to one of a position shift due to said movement of said respective image data in said first area and said second area, and a phase shift within a voxel.

14. (Original) The image data correcting device according to claim 1, wherein said correcting section is constructed so as to perform linear correction processing shown by one of a mean shift as a zeroth order of one of the phase and the position, and affine transformation.

15. (Cancelled)

16. (Original) The image data correcting device according to claim 1, wherein said movement information acquiring section is constructed so

as to acquire the movement information showing a three-dimensional spatial distribution, and said correcting section is constructed so as to three-dimensionally make the correction on the basis of the movement information showing said three-dimensional spatial distribution.

17. (Previously Presented) The image data correcting device according to claim 1, wherein said movement information acquiring section is constructed so as to acquire the movement information showing a spatial distribution of the magnitude of the movement of a non-rigid body.

18. (Currently Amended) The image data correcting device according to claim 1, wherein said movement information acquiring section is constructed so as to use the spatial distribution of the magnitude of a predetermined movement ~~supposed in advance~~ in said image pickup part.

19. (Cancelled)



20. (Original) The image data correcting device according to claim 1, wherein an image data collecting section for collecting said image data by providing a sensitivity distribution according to the magnitude of the movement of said image pickup part in advance is arranged.

21. (Currently Amended) The image data correcting device according to claim 18, wherein said movement information acquiring section sets an abdominal part to said image pickup part, and is constructed such that a distribution substantially linearly increased from ~~[[the]]~~ a back side of said abdominal part to ~~[[said]]~~ an abdominal wall side of said abdominal part with respect to the amplitude of the movement of each part in a direction directed from said back side to the abdominal wall side is used as said spatial distribution.

22. (Original) The image data correcting device according to claim 19, wherein said correcting section is constructed so as to obtain said two

areas or more by mutually synthesizing one portion of plural image data collected by using plural element coils.

23. (Original) The image data correcting device according to claim 19, wherein said correcting section is constructed so as to substantially generate said three image data or more as a synthesizing object by multiplying said image data in said image pickup part by plural window functions having weight distributions different from each other.

24. (Original) The image data correcting device according to claim 20, wherein said image data collecting section is constructed so as to collect said image data by using the multi-coil having plural element coils of sensitivity distributions different from each other.

25. (Currently Amended) The image data correcting device according to claim 24, wherein said image data collecting section sets [[the]] an abdominal part to said image pickup part, and has two surface

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coils respectively arranged on ~~[[the]]~~ a back side and ~~[[the]]~~ an abdominal wall side of said abdominal part as said plural element coils.

26. (Original) The image data correcting device according to claim 24, wherein said image data collecting section sets the abdominal part to said image pickup part, and has plural surface coils respectively arranged on the back side and the abdominal wall side as said plural element coils, and arranged in plural places along a direction directed from a head portion to a leg portion on at least one of said back side and said abdominal wall side.

27. (Original) The image data correcting device according to claim 24, wherein said correcting section is constructed so as to substantially generate plural image data by multiplying one portion or all portions of the plural image data collected by using said plural element coils by plural window functions having weight distributions different from each other.

28. (Currently Amended) An image data correcting device comprising at least one programmed computer connected to execute program code which includes:

a correcting section for making a correction different from that of a second area in a first area of image data of an image pickup part of a detected body collected by a scan of magnetic resonance imaging on the basis of movement information showing a spatial distribution of the magnitude of a movement in the real space of said image pickup part;

a synthesizing section for synthesizing the respective image data of said first area and said second area corrected by said correcting section, and

an image data collecting section for executing said scan by using a pulse sequence constructed by a pulse series based on one of a spin warp method, a spiral method and a radial method in a pulse series of one of a multi-shot type and a single type is arranged.

29. (Original) The image data correcting device according to claim 28, wherein said correcting section is constructed so as to perform linear

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correction processing according to a spatially ununiform deteriorating degree of said image data generated by the movement of said image pickup part.

30-36. (Cancelled)

37. (Currently Amended) An image data correcting method comprising using at least one programmed computer to:

~~acquiring~~ acquire movement information showing a spatial distribution of the magnitude of a movement in the real space of an image pickup part of a detected body;

~~making~~ make a correction different from that of a second area in a first area of image data of the image pickup part of said detected body collected by a scan of magnetic resonance imaging on the basis of said movement information; and

~~synthesizing~~ synthesize the respective corrected image data of said first area and said second area,

wherein said correction makes corrections different from each other and including a non-correction with respect to two areas or more obtained by mutually synthesizing one portion of at least three areas in said image data of said image pickup part

~~wherein said scan collects said image data and is executed by using a pulse sequence constructed by a pulse series based on one of a spin warp method, a spiral method and a radial method in a pulse series of one of a multi-shot type and a single type is arranged.~~

38. (Currently Amended) An image data correcting method comprising using at least one programmed computer to:

~~making~~ make a correction different from that of a second area in a first area of image data of an image pickup part of a detected body collected by a scan of magnetic resonance imaging on the basis of movement information showing a spatial distribution of the magnitude of a movement in the real space of said image pickup part; and

~~synthesizing~~ synthesize the respective corrected image data of said first area and said second area,

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wherein said correction makes corrections different from each other and including a non-correction with respect to two areas or more obtained by mutually synthesizing one portion of at least three areas in said image data of said image pickup part

~~wherein said scan collects said image data and is executed by using a pulse sequence constructed by a pulse series based on one of a spin warp method, a spiral method and a radial method in a pulse series of one of a multi-shot type and a single type is arranged.~~

39-40. (Cancelled)

41. (Currently Amended) A magnetic resonance imaging device comprising:

a movement information acquiring section for acquiring movement information showing a spatial distribution of the magnitude of a movement in the real space of an image pickup part of a detected body;

an image data collecting section for collecting image data of the image pickup part of said detected body by a scan of magnetic resonance imaging;

a correcting section for making a correction different from that of a second area in a first area of said collected image data on the basis of said movement information; and

a synthesizing section for synthesizing the respective image data of said first area and said second area corrected by said correcting section,

wherein said correcting section is configured to make corrections different from each other and including a non-correction with respect to two areas or more obtained by mutually synthesizing one portion of at least three areas in said image data of said image pickup part

and

~~an image data collecting section for executing said scan by using a pulse sequence constructed by a pulse series based on one of a spin warp method, a spiral method and a radial method in a pulse series of one of a multi-shot type and a single type is arranged.~~



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42. (Currently Amended) An image data correcting device comprising at least one programmed computer connected to execute program code which includes:

an image data collecting section for collecting image data of an image pickup part of a detected body by a scan of magnetic resonance imaging;

a correcting section for making a correction different from that of a second area in a first area of said collected image data on the basis of movement information showing a spatial distribution of the magnitude of a movement in the real space of said image pickup part; and

a synthesizing section for synthesizing the respective image data of said first area and said second area corrected by said correcting section,

wherein said correcting section is configured to make corrections different from each other and including a non-correction with respect to two areas or more obtained by mutually synthesizing one portion of at least three areas in said image data of said image pickup part

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~~an image data collecting section for executing said scan by using a pulse sequence constructed by a pulse series based on one of a spin warp method, a spiral method and a radial method in a pulse series of one of a multi-shot type and a single type is arranged.~~

43-44. (Cancelled)

45. (New) The image data correcting device according to claim 1, wherein an image data collecting section for executing said scan by using a pulse sequence constructed by a pulse series based on one of (a) a spin warp method, (b) a spiral method, and (c) a radial method in a pulse series of one of a multi-shot type and a single type is arranged.